

§ 85.2201 Applicability.

(a) This subpart contains the short tests and standards to be employed in conjunction with the Emissions Performance Warranty, subpart V.

(b) *Calendar and model year limitations.* Certain test procedures contained in this subpart are subject to calendar and model year limitations. Otherwise, unless specifically indicated, the provisions of this subpart may be used to establish warranty eligibility for any 1981 and later model year light-duty vehicle and light-duty truck when tested during its useful life as prescribed under the Emissions Performance Warranty, in subpart V of this part.

(c) *Special recommendations for Ford Motor Company and Honda Prelude vehicles.* Due to unique emission control systems, 1981 through 1987 model year vehicles manufactured by Ford Motor Company and 1984 through 1985 model year Honda Preludes must be tested with procedures that either incorporate a special engine restart feature or utilize a dynamometer to simulate a road load. The Agency has included short tests with the special engine restart feature in this subpart even though these vehicles are no longer eligible for the Emissions Performance Warranty, to ensure they are properly tested by state or other I/M authorities. Short tests incorporating the restart feature are the Engine restart 2500 rpm/Idle test—EPA 81 (§85.2210), Engine restart idle test—EPA 81 (§85.2211), Idle test—EPA 91 (§85.2213), Two speed idle test—EPA 91 (§85.2215), Preconditioned idle test—EPA 91 (§85.2218), Idle test with loaded preconditioning—EPA 91 (§85.2219), and Preconditioned two speed idle test—EPA 91 (§85.2220). Short tests utilizing a dynamometer are the Loaded test—EPA 81 (§85.2216) and Loaded test—EPA 91 (§85.2217). This recommendation does not apply to tests conducted at altitudes above 4000 feet. Any of the short test procedures may be used for other vehicles which are similarly no longer eligible for performance warranty coverage.

[49 FR 24323, June 12, 1984, as amended at 58 FR 58400, Nov. 1, 1993]

§ 85.2202 General provisions.

The definitions and abbreviations in subpart A of part 86 of this chapter apply to this subpart.

[49 FR 24323, June 12, 1984]

§ 85.2203 Short test standards for 1981 and later model year light-duty vehicles.

(a) For light-duty vehicles for which the test procedures described in §§85.2209, 85.2210, 85.2211, 85.2212, 85.2214, or 85.2216 are used to establish Emissions Performance Warranty eligibility (that is, 1981 and later model year light-duty vehicles at low altitude and 1982 and later model year vehicles at high altitude to which high altitude certification standards of 1.5 g/mile HC and 15 g/mile CO or less apply), short test emissions for all tests and test modes may not exceed the standards listed in paragraphs (a)(1) and (2) of this section.

(1) Hydrocarbons: 220 ppm as hexane.

(2) Carbon monoxide: 1.2%.

(b) For light-duty vehicles for which the test procedure described in §85.2214 is used to establish Emissions Performance Warranty eligibility (that is, 1981 and later model year light-duty vehicles at low altitude and 1982 and later model year vehicles at high altitude to which high altitude certification standards of 1.5 g/mile HC and 15 g/mile CO or less apply), the lowest readings from the two idle modes must be used to determine compliance. Short test emissions may not exceed the standards listed in paragraphs (b)(1) and (2) of this section.

(1) Hydrocarbons: 200 ppm as hexane.

(2) Carbon monoxide: 1.0%.

(c) For gasoline-fueled light-duty vehicles for which any of the test procedures described in §§85.2213, 85.2215, 85.2217, 85.2218, 85.2219, or 85.2220 are utilized to establish Emissions Performance Warranty eligibility (that is, 1981 and later model year light-duty vehicles at low altitude and 1982 and later model year vehicles at high altitude to which high altitude certification standards of 1.5 g/mile HC and 15 g/mile CO or less apply), short test emissions for all tests and test modes may not exceed the standards listed in paragraphs (c)(1) and (2) of this section.

§ 85.2204

- (1) Hydrocarbons: 220 ppm as hexane.
- (2) Carbon monoxide: 1.2%.

[58 FR 58401, Nov. 1, 1993]

§ 85.2204 Short test standards for 1981 and later model year light-duty trucks.

(a) For light-duty trucks for which the test procedures described in § 85.2209, 85.2210, 85.2211, 85.2212, 85.2214, or 85.2216 are used to establish Emissions Performance Warranty eligibility (that is, 1981 and later model year light-duty trucks at low altitude and 1982 and later model year trucks at high altitude to which high altitude certification standards of 2.0 g/mile HC and 26 g/mile CO or less apply), short test emissions may not exceed the standards listed in paragraphs (a)(1) and (2) of this section.

- (1) Hydrocarbons: 220 ppm as hexane.
- (2) Carbon monoxide: 1.2%.

(b) For light-duty trucks for which the test procedure described in § 85.2214 is used to establish Emissions Performance Warranty eligibility (that is, 1981 and later model year light-duty trucks at low altitude and 1982 and later model year trucks at high altitude to which high altitude certification standards of 2.0 g/mile HC and 26 g/mile CO or less apply), the lowest readings from the two idle modes must be used to determine compliance. Short test emissions may not exceed the standards listed in paragraphs (b)(1) and (2) of this section.

- (1) Hydrocarbons: 200 ppm as hexane.
- (2) Carbon monoxide: 1.0%.

(c) For 1981 and later model year gasoline-fueled light-duty trucks for which any of the test procedures described in § 85.2213, 85.2215, 85.2217, 85.2218, 85.2219, or 85.2220 are utilized to establish Emissions Performance Warranty eligibility (that is, 1981 and later model year light-duty trucks at low altitude and 1982 and later model year trucks at high altitude to which high altitude certification standards of 2.0 g/mile HC and 26 g/mile CO or less apply), short test emissions for all tests and test modes may not exceed the standards listed in paragraphs (c)(1) and (2) of this section.

- (1) Hydrocarbons: 220 ppm as hexane.
- (2) Carbon monoxide: 1.2%.

[58 FR 58401, Nov. 1, 1993]

40 CFR Ch. I (7-1-00 Edition)

§§ 85.2205-85.2206 [Reserved]

§ 85.2207 On-board diagnostics test standards.

(a) [Reserved]

(b) A vehicle shall fail the on-board diagnostics test if it is a 1996 or newer vehicle and the vehicle connector is missing, has been tampered with, or is otherwise inoperable.

(c) A vehicle shall fail the on-board diagnostics test if the malfunction indicator light is commanded to be illuminated and it is not visually illuminated according to visual inspection.

(d) A vehicle shall fail the on-board diagnostics test if the malfunction indicator light is commanded to be illuminated and any of the following OBD codes, as defined by SAE J2012 are present (where X refers to any digit). The procedure shall be done in accordance with SAE J2012 Diagnostic Trouble Code Definitions, (MAR92). This incorporation of reference was approved by the Director of the Federal Register in accordance with 5 U.S.C.552(a) and 1 CFR part 51. Copies of SAE J2012 may be obtained from the Society of Automotive Engineers, Inc., 400 Commonwealth Drive, Warrendale, PA 15096-0001. Copies may be inspected at the EPA Docket No. A-94-21 at EPA's Air Docket, (LE-131) Room 1500 M, 1st Floor, Waterside Mall, 401 M Street SW, Washington, DC, or at the Office of the Federal Register, 800 North Capitol Street, NW., suite 700, Washington, DC.

- (1) Any PX1XX Fuel and Air Metering codes.
- (2) Any PX2XX Fuel and Air Metering codes.
- (3) Any PX3XX Ignition System or Misfire codes.
- (4) Any PX4XX Auxiliary Emission Controls codes.
- (5) P0500 Vehicle Speed Sensor Malfunction.
- (6) P0501 Vehicle Speed Sensor Range/Malfunction.
- (7) P0502 Vehicle Speed Sensor Circuit Low Input.
- (8) P0503 Vehicle Speed Sensor Intermittent/Erratic/High.
- (9) P0505 Idle Control System Malfunction.
- (10) P0506 Idle Control System RPM Lower Than Expected.